

1                   CLAIMS:

2           I claim:

3           1. A mobile shredding system, comprising:

4                   (a) an input hopper with a hopper inlet and a hopper outlet, the hopper  
5                   disposed to receive feedstock to be shredded;

6                   (b) a first conveyer with a first conveyor inlet and a first conveyor  
7                   outlet, the first conveyor inlet disposed to receive feedstock from the  
8                   hopper outlet;

9                   (c) a shredder feed aperture disposed to receive feedstock from the first  
10                  conveyor outlet;

11                  (d) a second conveyor with a second conveyor inlet disposed to receive  
12                  excess feedstock from the first conveyor outlet, the second conveyor  
13                  having a conveyor surface moving away from the shredder feed  
14                  aperture, wherein the second conveyor moves excess feedstock away  
15                  from the shredder feed aperture; and

16                  (e) a shredder disposed to receive feedstock from the feed aperture, the  
17                  shredder having a shredder inlet and a shredder outlet.

1       2. A mobile shredding system as recited in claim 1, and which further comprises:

2                   3       a shredded material compactor disposed to receive shredded material from  
4                   3       the shredder outlet, the shredded material compactor having a compactor  
5                   4       outlet;

6                   5       a reciprocating ram, with a stroke of the reciprocating ram defining a  
7                   6       discharge area, the discharge area disposed to receive shredded stock from  
8                   7       the shredded material compactor, the discharge area having an outlet.

9       3. A mobile shredding system as recited in claim 2, and wherein the compactor  
10      is one or more augers.

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12       4. A mobile shredding system as recited in claim 1, and which further comprises  
13      a shredder feed drum rotatably mounted between the shredder feed aperture and  
14      the shredder, wherein rotation of the shredder feed drum pulls feedstock from the  
15      feed aperture and pushes it toward the shredder.

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17       5. A mobile shredding system as recited in claim 1, and wherein the first  
18      conveyor is in a substantially horizontal orientation.

19  
20       6. A mobile shredding system as recited in claim 1, and wherein the second  
21      conveyor is in a substantially vertical orientation.

7. A mobile shredding system, comprising:

(a) an input hopper with a hopper inlet and a hopper outlet, the hopper disposed to receive feedstock to be shredded;

(b) a shredder having a shredder inlet and a shredder outlet, the shredder inlet being disposed to directly or indirectly receive feedstock from the hopper;

(c) a compactor disposed to receive shredded material from the shredder outlet, the compactor having a compactor outlet;

(d) a reciprocating ram, with a stroke of the reciprocating ram defining a discharge area, the discharge area disposed to receive shredded stock from the compactor, the discharge area having an outlet.

8. A mobile shredding system as recited in claim 7, and wherein the compactor is one or more augers.

9. A mobile shredding system as recited in claim 7, and which further comprises a shredder feed drum rotatably mounted between the shredder feed aperture and the shredder, wherein rotation of the shredder feed drum pulls feedstock from the feed aperture and pushes it toward the shredder.

10. A mobile shredding system as recited in claim 7, and wherein the first conveyor is in a substantially horizontal orientation.

1 11. A mobile shredding system as recited in claim 7, and wherein the second  
2 conveyor is in a substantially vertical orientation

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4 12. A material handling and feed system for balers, comprising:

5 (a) an input hopper with a hopper inlet and a hopper outlet, the hopper  
6 disposed to receive balestock to be baled;

7 (b) a first conveyor with a first conveyor inlet and a first conveyor  
8 outlet, the first conveyor inlet disposed to receive balestock from the  
9 hopper outlet;

10 (c) a compactor feed aperture disposed to receive balestock from the  
11 first conveyor outlet;

12 (d) a second conveyor with a second conveyor inlet disposed to receive  
13 excess balestock from the first conveyor outlet, the second conveyor  
14 having a conveyor surface moving away from the compactor feed  
15 aperture, wherein the second conveyor moves excess balestock away  
16 from the compactor feed aperture;

17 (e) a balestock compactor disposed to receive balestock from the  
18 compactor feed aperture, the compactor having a compactor outlet;  
19 and

20 (f) a reciprocating ram, with a stroke of the reciprocating ram defining  
21 a discharge area, the discharge area disposed to receive balestock  
22 from the balestock compactor, the discharge area having an outlet  
23 disposed to provide the balestock to a baler.

1           13. A material handling and feed system for balers as recited in claim 12, and  
2           wherein the compactor is one or more augers.

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4           14. A material handling and feed system for balers as recited in claim 12, and  
5           which further comprises a feed drum rotatably mounted between the compactor  
6           feed aperture and the compactor, wherein rotation of the feed drum pulls feedstock  
7           from the feed aperture and pushes it toward the compactor.

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9           15. A material handling and feed system for balers as recited in claim 12, and  
10          wherein the first conveyor is in a substantially horizontal orientation.

11  
12          16. A material handling and feed system for balers as recited in claim, and  
13          wherein the second conveyor is in a substantially vertical orientation.